

## CLAIMS

What is claimed is:

1        1. A method for digital watermarking, the method comprising:  
2                utilizing a data stream to configure operations of an adaptive computing engine; and  
3                embedding dynamic watermarking data within the data stream to provide identifying  
4                indicia for the adaptive computing engine.

1        2. The method of claim 1 wherein embedding further comprises adding the dynamic  
2                watermarking when the data stream is created by a compiler.

1        3. The method of claim 1 wherein embedding further comprises adding the dynamic  
2                watermarking data when the data stream is received in memory.

1        4. The method of claim 1 wherein embedding further comprises adding the dynamic  
2                watermarking data while the data stream is transported from memory to the adaptive  
3                computing engine.

1        5. The method of claim 1 wherein embedding further comprises adding the dynamic  
2                watermarking data when the data stream is executing as the adaptive computing engine.

1        6. The method of claim 1 wherein utilizing a data stream further comprises  
2                configuring a hardware state machine within the adaptive computing engine to extract and  
3                process the dynamic watermarking data.

1           7. The method of claim 6 wherein processing the dynamic watermarking data further  
2 comprises controlling access to the adaptive computing engine.

1           8. The method of claim 7 wherein processing the dynamic watermarking data further  
2 comprises logging statistics of the adaptive computing engine.

1           9. The method of claim 8 wherein processing the dynamic watermarking data further  
2 comprises performing events.

1           10. The method of claim 9 determining a number of times access to the adaptive  
2 computing engine is allowed, tracking a number of times the adaptive computing engine is  
3 accessed, and ending access with the number of times has been exhausted.

1           11. The method of claim 10 initiating acquisition of additional fee payment for  
2 continued utilization of the adaptive computing engine.

1           12. A system for digital watermarking, the system comprising:  
2           an adaptive computing engine (ACE); and  
3           a data stream for configuring operations in the ACE, the data stream including  
4           dynamic watermarking data to provide identifying indicia for the ACE.

1           13. The method of claim 12 wherein the data stream further comprises a first portion  
2         including adaptive instructions and configuration data and a second portion including data to  
3         be processed.

1           14. The method of claim 13 wherein the data stream further comprises the dynamic  
2         watermarking data as a third portion.

1           15. The method of claim 13 wherein the data stream further comprises the dynamic  
2         watermarking data spread across the first and second portions.

1           16. The method of claim 12 wherein the data stream further comprises data for  
2         configuring a hardware state machine within the ACE to extract and process the dynamic  
3         watermarking data.

1           17. The method of claim 16 wherein the data stream further comprises data for  
2         controlling access to the adaptive computing engine.

1           18. The method of claim 17 wherein the data stream further comprises data for  
2         logging statistics of the adaptive computing engine.

1           19. The method of claim 18 wherein the data stream further comprises data for  
2         performing events.

1           20. The method of claim 19 wherein the data stream further comprises data for  
2       determining a number of times access to the adaptive computing engine is allowed, tracking  
3       a number of times the adaptive computing engine is accessed, and ending access with the  
4       number of times has been exhausted.

1           21. The method of claim 12 wherein the ACE further comprises a controller, one or  
2       more reconfigurable matrices, a matrix interconnection network, and a memory.

1           22. A method for digital watermarking, the method comprising:  
2       providing dynamic watermarking data within a data stream;  
3       marking a combination of computational elements, configured by data within the  
4       data stream, with the dynamic watermarking data; and  
5       marking one or more algorithms, included in the data stream and to be performed by  
6       the combination of computational elements, with the dynamic watermarking data.

1           23. The method of claim 22 wherein providing further comprises adding the  
2       dynamic watermarking when the data stream is created by a compiler.

1           24. The method of claim 22 wherein providing further comprises adding the  
2       dynamic watermarking data when the data stream is received in memory.

1           25. The method of claim 22 wherein providing further comprises adding the  
2       dynamic watermarking data while the data stream is transported from memory to an adaptive

3 computing engine formed by the combination of computational elements and the one or  
4 more algorithms.

1           26. The method of claim 22 wherein providing further comprises adding the  
2 dynamic watermarking data when the data stream is executing as an adaptive computing  
3 engine.